

Porter

ATHLETIC EQUIPMENT CO.

A Division of Waco Manufacturing Company

Basketball · Gymnasium · Playground · Corrective Equipment

• **Performance-proved . . . Over 100,000 basketball installations alone in over 25,000 schools.**

Proof that when you buy Porter, you can be sure. . . Nearly a Century of Quality Manufacturing.

• **Quality Plus . . .** Porter's "53,000 lbs. p.s.i. test" malleable castings, first quality new pipe plus stress-tested quality gives years of trouble free service to every building, every builder and architect.

• **Custom Installations . . .** For buildings requiring "specialized" backstops, Porter's engineering staff will design to meet the most rigid requirements. Contact your Porter distributor or write giving your requirements.

• **New Architect's Reference File Available . . .** Write for complete architect's tracing details; also gives complete wall and ceiling stress information.

• **Planning Service. . .** For gymnasium layout available to answer any questions on type, planning or installation of equipment.



Portable Steel Frame Bleachers

WACO Portable Bleachers, manufactured of high carbon steel tubing feature the patented speed lock method of assembly, plus self locking plank fasteners. WACO bleachers offer the utmost in versatility. For example a ten row bleacher unit may be partially dismantled and re-erected as a four row or seven row unit without disturbing the balance of the original bleacher. These features do not detract in any way from the use of WACO Bleachers for permanent or semi-permanent installations.

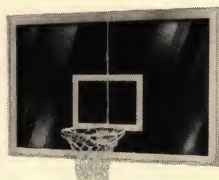
WACO Bleachers are available in non-elevated and elevated styles, with and without a front cross walk. All WACO Bleachers are completely load tested and are covered by more than one million dollars worth of product liability insurance. Use our engineering service to solve your seating problems without obligation.



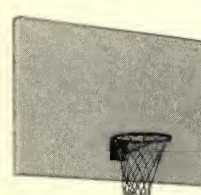
Where To Use	When To Use	Mounting	Type	No.
fixed	basketball backstops	Recommended where structure or contemplated use of space renders it unnecessary to remove or reposition backstops.		
Unobstructed wall	When bank is extended 12' or less from wall.	Wall braced	Fixed	212-B
Where bank is far from walls	When distance from the face of the bank to the wall is greater than 9'.	Ceiling suspended and braced	Fixed	226-B
Window span	When bank is positioned in front of window or an obstruction that must be spanned.	Wall braced	Fixed	212-WS
Balcony wall	When balcony is 9' to 13' high.	Wall braced balcony	Fixed	213-B
Medium strength walls	When walls are not sufficiently strong to support a wall braced backstop and face of bank is to be 9' or less from the wall.	Ceiling suspended wall braced	Fixed	218-B
Large stadiums, field houses	Where ceiling is exceptionally high or when suspended type backstop would be objectionable.	Concrete anchored floor pedestal, ceiling cable braced	Fixed	228-B
Outdoors		Concrete anchored single pedestal	Fixed	58-F 59
hinged	basketball backstops	Where structure and contemplated use of space dictate that backstop must sometimes be repositioned, but not removed.		
High ceiling, unobstructed wall	When ceiling height is sum of required extension (up to 12') of backstop plus 12'-10" and space permits 3' to 12' extension from wall.	Wall braced	Wall fold-up	219-B
Low ceiling, obstructions in wall	When lack of ceiling height or obstruction, such as window or heating unit above backstop voids use of 219-B. Extensions to 10'.		Side fold	220-B
High unobstructed ceiling, weak walls forbid 5'-6" extension	When backboard is extended 5'-6" or more from wall or from proscenium arch, in case of a stage. Walls too weak to permit long extension.	Ceiling suspended	Hoistaway forward fold	217-B
Obstruction in ceiling	When skylights, light fixtures or structural members interfere with 217-B.		Hoistaway backward fold	223-B
Dual Purpose Space Divided rooms	When gymnasiums are divided into 2 rooms by folding door.	Wall braced	Side swing gate	247-B 248-B
In front of stage. Over balconies	When complete "Jackknife" folding through use of knee joints to make minimum folded up backstop area is required.	Ceiling suspended	Hoistaway double fold	251-B
Close Quarters	When swing-up backstop must be located less than 5'-6" from wall or folding partition.	Ceiling suspended forward braced	Wall or Partition swing-up	249-B
movable	basketball backstops	For dual purpose space where it is sometimes desirable that backstops be completely moved or relocated.		
Dual purpose gym floor space	Floor area folded, 8' x 4'. Unfolded 4' wide x 12' or 13' long, depending on extension of bank. Maximum extension 5'.	Floor plates, casters	Folding rollaway	235-B
Dual purpose stage	Floor area folded 5' x 4'. Ht. 38" not inc. goal. Unfolded 6' w x 9' or 10' long, depending on extension of bank. Maximum extension 5'.	Floor plates, casters	Folding rollaway	236-B
Field houses and gyms	When impossible to use suspended backstop. When truss heights are over 25' or where overhead suspended backstops would obstruct sight lines to a decided disadvantage.	Floor plates, casters	Rigid structure with rollaway base; stores in 2 parts.	225-B
Field house, stadiums, gyms where storage is problem	Exceptionally high ceilings or where overhead suspended backstops would be objectionable. Rolls into opening 6' w x 7'-6" high.	Lifting screws, casters	Detachable extension, rollaway base. Hinged in 2 sections.	227-B



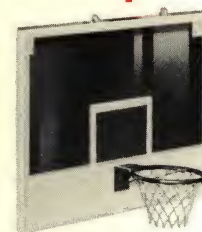
Herculite Backboards . . . Choose either Porter's No. 231-B Fan Shaped or No. 232-B Rectangular Backboard. Both official and carefully heat tempered glass to ensure strength and improve end-court visibility.



Steel . . . Porter's No. 237-B Fan Shaped Backboard of one piece, 12 gauge, hot rolled sheet steel . . . rigidity braced . . . meets all official requirements.

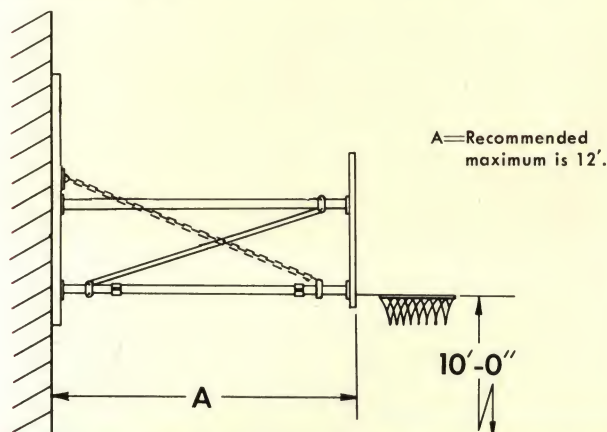


Rectangular Wood or Plate Glass. Choose Porter's No. 208-B panel-wood backboard or No. 211-B Reinforced Plate Glass Backboard. Both are official . . . sure to give maximum satisfaction.



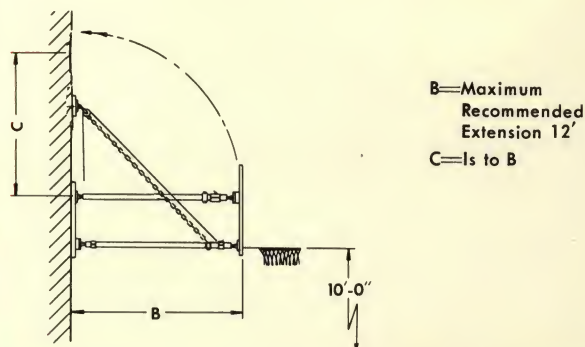
212-B wall braced type

Use where walls are unobstructed. Bank may be installed flush or extended 12' or less from wall. Naturally, as the distance extended increases, structural additions must be made to insure a rigid installation.



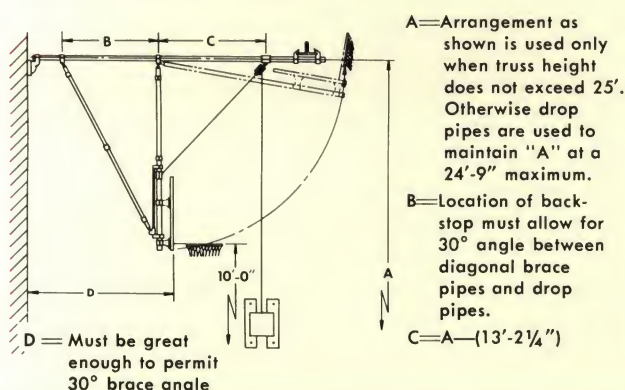
219-B wall braced wall fold-up

Designed for use with high ceiling and unobstructed wall. Ceiling height must be the sum of the required extension of backstop plus 12'-10". To retract, the frame work and backboard are simply raised to a position flush against the wall by means of a cable and Porter PF-750 worm-gear winch.



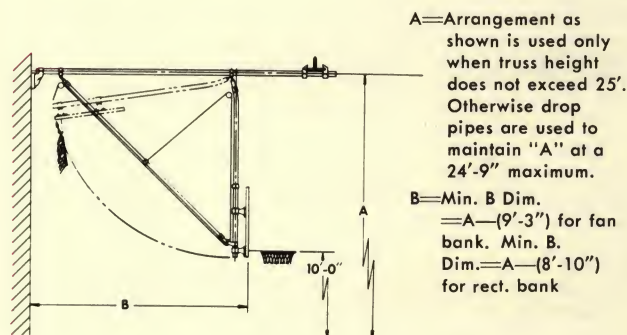
217-B ceiling suspended hoistaway forward fold

Install where conditions require backstop be removed from playing position to accommodate other activities. When truss height is more than 25', a special superstructure must be used. Unit features enclosed Porter PF-750 worm-gear winch for raising structure to ceiling quickly and almost without effort.



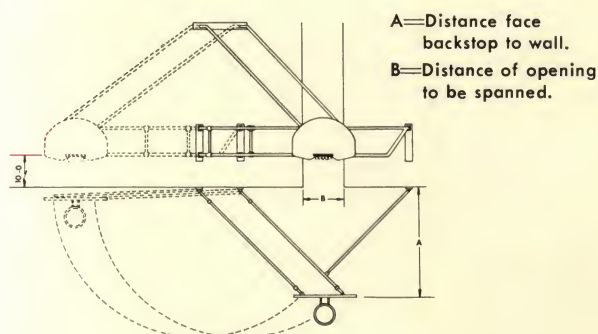
223-B ceiling suspended hoistaway foldback

For use when the forward fold can't be installed because the positions of skylights, light fixtures or structural members interfere with the backstop swinging up. A Porter PF-750 enclosed worm-gear winch hoists, lowers and locks backstop into playing position.



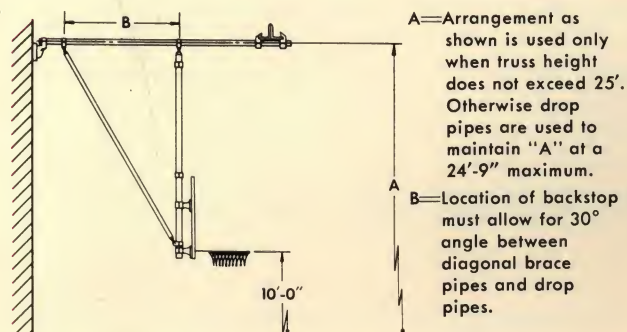
248-B wall braced gate side swing

For dual purpose space, when gymnasiums are divided into two rooms by folding door. Also permits practice courts. Usually the folding door and the center line of the main court coincide. The "gate" containing the backboard simply swings to one side to permit the door to operate.



226-B ceiling suspended and braced type

Use when walls are obstructed or distance from the face of the bank to the wall is excessive or when walls are too weak to accept the weight of a wall braced backstop. This permanently rigid structure may be placed almost anywhere in the gymnasium, independent of wall bracing.



SPECIFICATIONS

For backstops shown on page three.

Write for specifications of backstops on page two.)

(Incorporate the following sentence and applicable clause.) Any substitutes for the bracing herein specified, including "U" bars, or steel channels, or wire and turnbuckle cross-bracings shall not be considered acceptable.

212-B—Wall braced type. 2' to 12' extended (specify). Shall be constructed with four (4) 1½" I.D. brace pipes terminating in malleable iron flanges for attachment, cross braced with ¼" x 1¼" flat steel braces secured with bolted clamp fittings.

219-B—Wall braced fold-up type. 3' to 12' extension (specify). Shall be complete with all hoisting equipment and arranged to fold up against wall. Brace pipes shall be 1½" I.D. and shall attach by means of hinged fittings. Backstop to be held in proper position with two lengths of chain each attaching at top to wood batten, and at bottom to extended end of brace pipe. Brace pipes to be cross braced with four ¼" x 1¼" flat mild steel braces and bolted steel fittings.

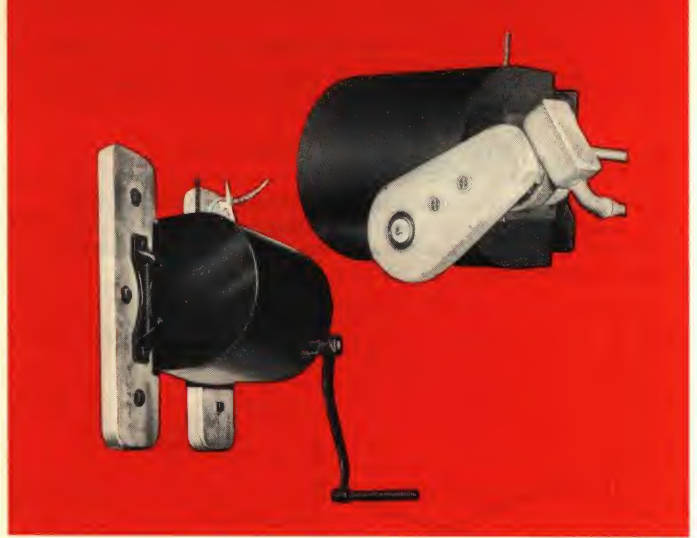
217-B—Ceiling suspended hoistaway forward fold type. (Incorporate clauses marked 217-B below). Hoisting arrangement consisting of malleable iron collar operating on 1-1/16" O.D. Slide rod shall permit raising and lowering of backstop and provide positive locking without additional latching mechanisms.

223-B—Ceiling suspended hoistaway fold back type. (Incorporate clauses marked 223-B below.) Each inclined brace shall consist of two lengths of pipe joined with special malleable iron hinge fitting, rigid when closed, and allowing brace members to fold for hoisting.

(217-B, 223-B)—Shall be furnished complete with all hoisting equipment and rigid superstructure constructed with 3" I.D. pipe, and required cross bracings and guider clamps. Vertical drop pipes 2" I.D. and incline braces 1¼" I.D. pipe, each attaching to superstructure with malleable iron hinged fittings, and 1-5/16" O.D. threaded cold rolled steel rod 12" long to permit adjustment of backstop for height, plumb, and level. Drop pipes and inclined braces shall be cross-braced with ¼" x 1¼" flat mild steel braces, attaching to pipes and joined at all intersections with bolted fittings. Two 1½" I.D. sway braces shall be used if backstop is fan shaped and suspended more than 20'-0" from floor.

226-B—Ceiling suspended braced type. Shall be constructed with rigid superstructure of 3" I.D. pipe and proper girder clamps and cross braces. Drop pipes 2" I.D. and brace pipes 1¼" I.D. with cross bracing and sway bracing as required.

248-B—Wall-braced gate side swing type. Shall be constructed to permit disconnection of bank by floor operated latching arrangement, allowing bank and brace pipes to swing in horizontal arc against wall. Brace pipes shall be cross braced with 1½" spacer pipes attaching to brace pipes with bolted steel fittings.



PF-750 manual winch

Load Capacity—750 lbs.; Cable Capacity—36' approx., Overall Dimensions—11 5/8" x 11 5/8" x 12" long.

Winch shall be designed to hold unit at any point when raising or lowering backstop. Two side brackets, drum and crank shall be of sturdy malleable iron castings. Drum shall be 9" in diameter and have serrations for cable lay. Crank, removable when not in use, shall be 12" long with a 5½" revolving hand grip. Worm shall be cold rolled steel. Worm gear cast bronze. Ratio between crank and drum shall be 40 to 1. A 16 gauge welded sheet steel cover shall enclose entire winch.

257 portable electrically operated winch (not shown)

Direct drive unit consists of a ½ hp universal motor driving a set of totally enclosed, permanently lubricated gears. The drum is grooved for even winding and is supported by metal brackets and a 1" diameter steel shaft. Oilite bronze bearings are used in the worm gear reducer.

258 Permanent Electrical Winch. With Porter's Electric Winch, the operator merely inserts a "yale type" key into the lock of the switch and turns it in the up position to raise the backstop or the down to lower it. As a safety feature, the switch is spring loaded in both directions . . . no danger of the electricity being left on. The key prevents operation by an unauthorized person. Also a limit switch automatically disconnects the backstop at the highest position. And with Porter's universal motor, starting torque is so high that there are no limitations on reversing our backstops. Cycle can be interrupted and reversed or resumed at any time in the cycle. One switch will operate any number of backstops simultaneously.

PORTER ATHLETIC EQUIPMENT CO. • A division of WACO Mfg. Co. • OTTAWA, ILLINOIS

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